

# AP200 BlueRay Probe System with Loader



## Facility Planning Guide

This guide contains information to help prepare your facility for the arrival of your AP200 BlueRay probe system with loader.

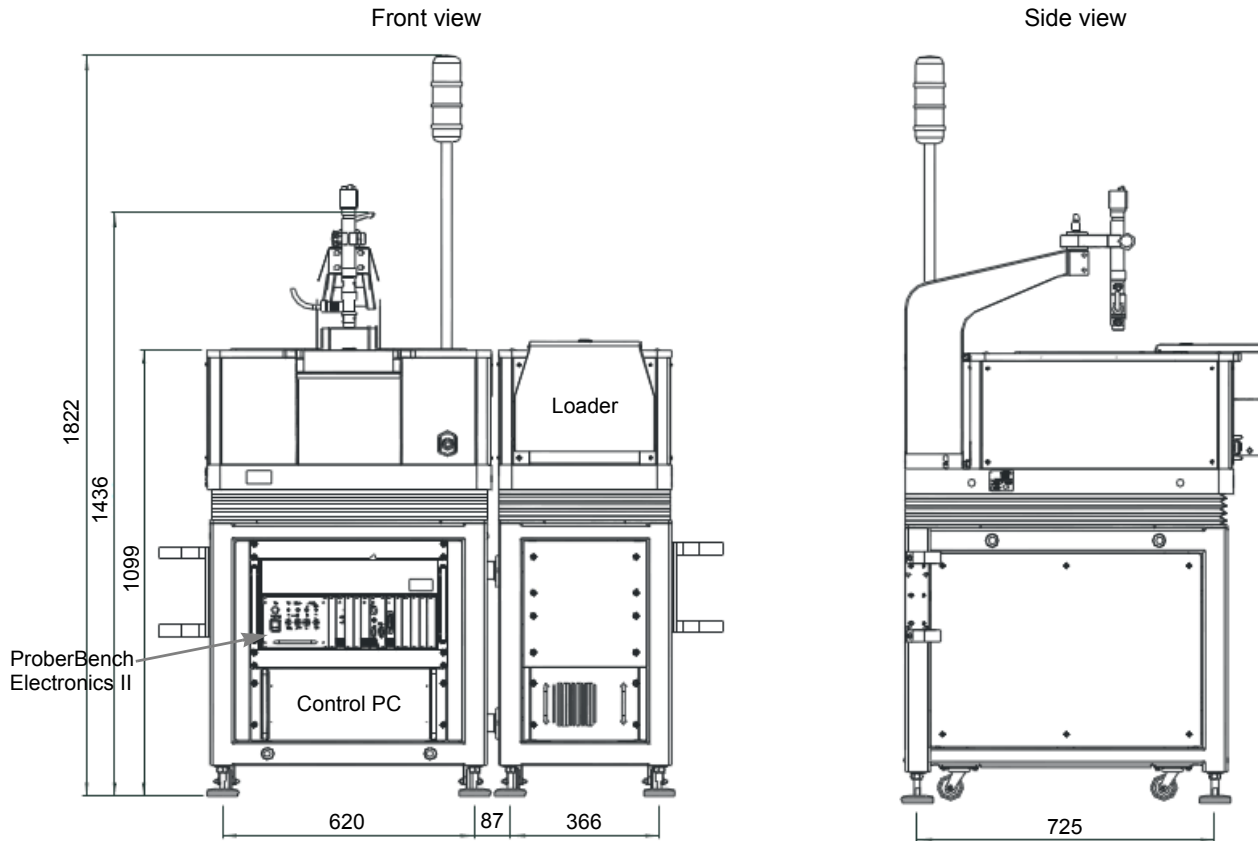
### Probe Station Requirements

<b>Air and Vacuum</b>	Vacuum	<ul style="list-style-type: none"> <li>• Less than 200 mbar absolute</li> <li>• Flow rate insignificant</li> <li>• 8 mm hose (US 5/16")</li> </ul>	
	Compressed air for Vibration Isolation Table	<ul style="list-style-type: none"> <li>• Filtered, dry and oil-free</li> <li>• Minimum 4 bar to 8 bar maximum</li> <li>• Flow rate insignificant</li> <li>• 8 mm hose (US 5/16")</li> </ul>	
<b>Dimensions</b>	Station	• 1143 mm (W) (plus optional 2 x 117 mm left, right) x 876 mm (D) x 1436 (1822) mm (H), depending on microscope type and position)	
	Additional Clearance	<i>Front</i>	• 800 mm for operator/installation
		<i>Back</i>	<ul style="list-style-type: none"> <li>• 200 mm for cables</li> <li>• 600 mm during installation or service</li> </ul>
		<i>Left</i>	• 200 mm for cables
		<i>Right</i>	<ul style="list-style-type: none"> <li>• 200 mm for cables</li> <li>• 600 mm during installation or service</li> </ul>
		<i>Top</i>	• 2500 mm
	ProberBench rack	• 450 mm (W) x 400 mm (D) x 230 mm (H), with connectors installed, optionally integrated in rack	
Joystick Controller	• 280 mm (W) x 250 mm (D) x 140 mm (H), can be mounted to external control console		
Control PC	Optionally integrated in VIT		
Vibration isolation table	For dimensions and points of support, see diagrams.		
<b>Weight</b>	Station	750 kg	
	Loader module	200 kg	
<b>Temperature</b>	Operating range	19° C to 24° C	
	Target temperature	22° C	
	Tolerance	1K	
	ProberBench	Side ventilators and air expellers must be kept clear for air circulation	
<b>Humidity</b>	Tool area	25% to 60%	
	Support equipment area	25% to 60%	
<b>Vibrations</b>	The facility should be free of vibrations caused by other equipment.		
<b>Electrical Data</b>	Power	100–240 V AC nominal, 50/60 Hz, 500 VA	
	Protection class	I	
	Transient overvoltage	Overvoltage category II (IEC 60364-4-443)	
	Main connector–North America	The station has an integrated socket strip (UL-498, CSA, with NEMA 5-15R receptacles) with grounded mains plug NEMA 5-15P, 15A/125V.	
	Main connector–Europe	The station has an integrated socket strip (with DIN 49440 sockets) with grounded mains plug CEE 7/7, DIN 49441, 16A/250V (German "Schuko").	
	Facility power line fuse for main connector	Ensure that a 16 A lead fuse is available in your facility power line where the main probe station connector is plugged in.	
<b>Reliability</b>	MTBF 3000 h; MTTR 24 h; availability 99%		
<b>Pollution Level</b>	1 IEC 664		

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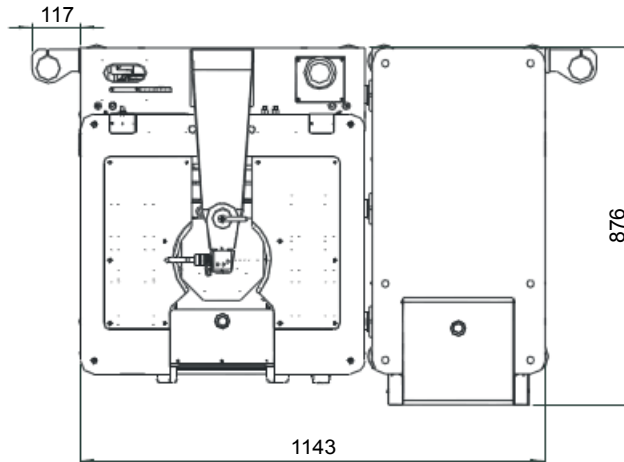
<b>Clean Room Class</b>	Class 6 corresponding to DIN EN ISO 14644-1	
<b>Additional Equipment</b>	Thermal Chuck	<ul style="list-style-type: none"> <li>• Temperature range: room temperature to +150°C.</li> <li>• May require a coolant: - Dry air: 200 l/min at SATP, 0.5 to 0.7 MPa or 5 to 7 bar</li> </ul>
<b>Shipping Dimensions</b> <small>(approx. values)</small>	Probe station box	• 1200 mm (W) x 1200 mm (D) x 1000 mm (H)
	Loader box	• 600 mm (W) x 1000 mm (D) x 1400 mm (H)
	Accessories, incl. VIT	• 1200 mm x 1200 mm (D) x 1000 mm (H)

## Dimensions (in mm)



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Top view



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